

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rule 72.2)

To:

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Date of mailing (<i>day/month/year</i>) 09 June 2005 (09.06.2005)	
Applicant's or agent's file reference F1030747WO00	IMPORTANT NOTIFICATION
International application No. PCT/JP2003/016835	International filing date (<i>day/month/year</i>) 25 December 2003 (25.12.2003)
Applicant SANYO ELECTRIC CO., LTD. et al	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN, EP, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

JP, US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.+41 22 740 14 35	Authorized officer Yoshiko Kuwahara Facsimile No.+41 22 338 90 90
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Translation

PATENT COOPERATION TREATY

PCT/JP2003/016835



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F1030747WO00	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/016835	International filing date (day/month/year) 25 December 2003 (25.12.2003)	Priority date (day/month/year) 26 December 2002 (26.12.2002)
International Patent Classification (IPC) or national classification and IPC G09G 3/34, 3/36, 3/20, G03B 21/00, G02F 1/13, 1/133		
Applicant SANYO ELECTRIC CO., LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☒ Box No. VIII Certain observations on the international application

Date of submission of the demand 20 July 2004 (20.07.2004)	Date of completion of this report 20 January 2005 (20.01.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016835

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1-8 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* 1,2,4,6-8 received by this Authority on 24 December 2004 (24.12.2004)
- pages* 5 received by this Authority on 20 July 2004 (20.07.2004)
- ☒ the drawings:
- pages _____ 1-6 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 3 _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP/03/16835

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1, 2, 4-8	YES
	Claims		NO
Inventive step (IS)	Claims	2, 5	YES
	Claims	1, 4, 6-8	NO
Industrial applicability (IA)	Claims	1, 2, 4-8	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

- Document 1: JP, 2000-214827, A (Toray Industries, Inc.), August 4, 2000 (08.04.00), Claims 1 and 2, Paragraphs 0010-0019, Figs. 1-5 (Family: none)
- Document 2: EP, 0888016, A1 (Hewlett-Packard Company), December 30, 1998 (12.30.98), Column 3, lines 38-51, Figs. 1 and 2
& JP, 11-231278, A & US, 5971545, A1 & CA, 2228873, A1
& CN, 1224169, A & SG, 69268, A1 & KR, 99/7132, A & TW, 373404, A
& DE, 69808184, E
- Document 3: JP, 2002-278505, A (Canon Inc.), September 27, 2002 (09.27.02), Paragraphs 0046-0049, Fig. 5 (Family: none)
- Document 4: EP, 1003062, A1 (Seiko Epson Corporation), May 24, 2000 (05.24.00), Paragraphs 0069-0080, Fig. 1(a)
Paragraphs 0124-0128, Fig. 8
& JP, 2000-56410, A & WO, 99/64912, A1 & CN, 1273641, A
& KR, 01/22667, A
- Document 5: JP, 2000-221499, A (Sony Corporation), August 11, 2000 (08.11.00), Paragraphs 0045-0048, Fig. 7 (Family: none)
- Document 6: US, 2002/0154277, A1 (Hiroshi Mukawa, et. al.), October 24, 2002 (10.24.02), Paragraph 0035, Fig. 1
& JP, 2002-296680, A & US, 6561654, B2 & KR, 02/77819, A
- Document 7: JP, 2001-42431, A (Nittoh Kogaku K.K.), February 16, 2001 (02.16.01), Paragraph 0047, Fig. 11 (Family: none)

The invention relating to claim 1 does not appear to involve an inventive step based on documents 1, 3 and 4 cited in the ISR. Using as an optical system for a liquid crystal display device described in document 1 and optical system as described in document 4 wherein red, green and blue light are light integrated, led to a display panel and modulated in such display panel could be easily conceived of by a party skilled in the art. Also, as a light amount control method for backlight described in document 1, adopting a method of controlling the emission number of LEDs (light emitting diode) as described in document 3 could also be easily conceived of by a party skilled in the art. When controlling emission number, dispersedly disposing sections where light is off could be easily conceived of by a party skilled in the art.

The invention relating to claim 2 is not described in any of the documents cited in the ISR, nor is it obvious to a party skilled in the art.

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 8 states that "light of each color from each light source is led unchanged to a red display panel, green display panel and blue display panel." However, the projection type video display device described in claims 1, 2 and 4, which are cited by claim 8, comprises "means for integrating light of the colors from each light emitting diode and leading to the display panel." Leading light of each color to each display panel unchanged, and integrating and leading light of each color are contradictory, and in both embodiments, it is unclear whether light is shined on each display panel.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of Box V:

The invention relating to claim 4 does not appear to involve an inventive step based on documents 1, 3 and 4 cited in the ISR. Performing control processing with respect to a discrete threshold value in order to simplify judgment processing and control processing is a commonly used art, and performing a three-step control of dark, medium and bright with respect to the light amount control method could be easily conceived of by a party skilled in the art.

The invention relating to claim 5 is not described in any of the documents cited in the ISR, nor is it obvious to a party skilled in the art.

The invention relating to claim 6 does not appear to involve an inventive step based on documents 1, 3 and 4 cited in the ISR. A constitution for leading a light-integrated white light to a single full-color display panel is described in document 4.

The invention relating to claim 7 does not appear to involve an inventive step based on documents 1 and 3-6 cited in the ISR. A constitution wherein white light is separated into separate colors so that light of each color is respectively led to a red display panel, green display panel and blue display panel is a well-known art, as described in documents 5 and 6.

As stated in box VIII, the invention relating to claim 8 is found not to comprise means for integrating light.

The invention relating to claim 8 does not appear to involve an inventive step based on documents 1-3 and 7 cited in the ISR. A constitution so that light of each color from each light source is led to a red display panel, green display panel and blue display panel is a well-known art, as described in documents 2 and 7.